



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

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ACT/047/002
Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

MEMORANDUM

TO: James W. Smith, Jr., Coordinator Mined Land Development
FROM: Susan C. Linner, Reclamation Biologist *SLC*
SUBJECT: Permitting Requirements for Geokinetics (Biology)
DATE: May 14, 1982

Baseline vegetation studies to determine the representative ground cover of surrounding vegetation communities should be done to set a standard for revegetation success. If there is more than one vegetation type on the permit area, there may be more than one success standard, or an average value can be used for an overall standard. Important communities (i.e., riparian habitat) should be replaced as closely as possible, and may have separate success standards.

Surveys should be done to determine whether any threatened or endangered plant or animal species exist on the site. All areas to be disturbed should be surveyed. Critical habitats for any wildlife species should be noted (i.e., riparian habitats, raptor nesting areas).

A complete revegetation plan should be submitted including: seed mix(es) and rate of seeding in pure live seed (PLS) per acre, or stocking rate (stems/acre) for shrub plantings; seedbed preparation; seeding and planting techniques; mulching, irrigation and fertilization methods, amounts and frequencies or duration. If there will be different techniques or seed mixes for different areas, this should be reflected by the success standards that are set. Season of seeding or planting should be indicated.

If revegetation test plots will be used, the treatments to be utilized should be discussed, along with some discussion of how success of the plots will be monitored and how the results will be used to determine final revegetation practices.

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Monitoring of revegetated areas during the bond release period should be discussed. This will include monitoring methods, timing and duration of monitoring, and methods of determining whether or not the success standard has been achieved. Funds for monitoring of revegetation success should be included in surety calculations.

Revegetation species mix(es) should be consistent with the postmining land-uses.

If there is more than one vegetation type on the permit area, a map showing the location and extent of the various types, or a table showing acreages of the different types is helpful.

Protection of reclaimed areas from grazing by domestic or wild animals should be discussed. Specific methods should be outlined for areas where problems are anticipated.

SCL/btb